

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (original) A modified chemical vapor deposition (MCVD) device for manufacturing an optical fiber preform, comprising:
  - a quartz tube;
  - a lathe for supporting the quartz tube so that the quartz is rotatable on a central axis thereof;
  - a bubbler system for generating reaction gas to be supplied into the quartz tube;
  - a rotary connector for interfacing a main headstock of the lathe with the bubbler system; and
  - a sealing chamber surrounding an area including the rotary connector in order to isolate the area including the rotary connector from the external atmosphere,
  - wherein the sealing chamber includes an input pipe for flowing inert gas therein and an output pipe for discharging the inert gas,
  - whereby the inside of the sealing chamber is kept in an inert gas atmosphere.
2. (original) An MCVD device according to claim 1, further comprising a cabinet for isolating an area including at least the quartz tube and its junctions from the external atmosphere and keeping the isolated area in an inert gas atmosphere.
3. (original) An MCVD device according to claim 2, wherein the cabinet includes:
  - a gas torch installed at a lower end of the cabinet for supplying inert gas into the isolated area; and
  - a discharge hole for discharging the inert gas from the gas torch and a heated air near the quartz tube to outside.
4. (original) An MCVD device according to claim 3,
  - wherein a gas purifier is connected to the gas torch in order to control a moisture content of the inert gas.

5. (currently amended) An MCVD device according to claim 4,  
wherein the gas purifier is arranged to keep the ~~a~~ moisture content of the inert gas to  
a level of ~~is~~ less than 100 ppm.

6. (currently amended) An MCVD device according to any of claims 1 to 3,  
wherein the sealing chamber is filled with an inert gas consisting of ~~is~~ at least one  
selected from the group consisting of N<sub>2</sub>, He and Ar.

7. (original) An MCVD device according to any of claims 1 to 3, further comprising  
a pressure control means installed to the input pipe for controlling internal pressure of the  
sealing chamber.

8. (currently amended) An MCVD device according to claim 7,  
wherein the pressure control means is arranged to keep the internal pressure of the  
sealing chamber ~~is kept~~ in the range of 0.5 to 1.5 atm.

9. (original) An MCVD device according to any of claims 1 to 3,  
wherein a gas purifier is connected to the input pipe in order to control a moisture  
content of the inert gas.

10. (currently amended) An MCVD device according to claim 9,  
wherein the gas purifier is arranged to keep the ~~a~~ moisture content of the inert gas to  
~~is~~ less than 10 ppm.

11. (original) An MCVD device according to any of claims 1 to 3,  
further comprising a pressure gauge for measuring internal pressure of the sealing  
chamber.

12. (original) An MCVD device according to any of claims 1 to 3, wherein the  
bubbler system includes:  
at least one bubbler for generating reaction gas to be supplied to the quartz tube;  
a mass flow controller for controlling a flow rate of the reaction gas supplied from the  
bubbler; and  
a bubbler cabinet for isolating the bubbler and the mass flow controller from the

external atmosphere, and keeping the isolated area in an inert gas atmosphere.

13. (original) An MCVD device according to claim 12,  
wherein an ultraviolet generator is installed in the bubbler cabinet to emit ultraviolet rays having a wavelength of 400 nm or below.

14. (original) An MCVD device according to claim 12,  
wherein a laser generator is installed in the bubbler cabinet to emit laser having a wavelength of 400 nm or below.

15. (original) An MCVD device according to claim 12, wherein the bubbler cabinet is provided with:

a gas torch for supplying inert gas into the isolated area; and  
a gas discharge hole for discharging the inert gas out of the bubbler cabinet.

16. (currently amended) An MCVD device according to claim 15, wherein the gas torch and the gas discharge hole are arranged and dimensioned to keep the an internal pressure of the bubbler cabinet ~~is kept~~ in the range of 0.5 to 1.5 atm.

17. (currently amended) An MCVD device according to claim 15,  
wherein a gas purifier is connected to the gas torch in order to control a moisture content of the inert gas.

18. (currently amended) An MCVD device according to claim ~~17~~ 15,  
wherein the gas purifier is arranged to keep the a moisture content of the inert gas to ~~is~~ less than 10 ppm.

19. (currently amended) An MCVD device according to claim 15,  
wherein the isolated area is filled with an inert gas consisting of is at least one selected from the group consisting of N<sub>2</sub>, He and Ar.